**SIL O2**



**Configuration Settings for Factory Pre-programming**

**END CUSTOMER:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Alarm** | **Alarm value (% Oxygen)** | **Hysteresis (% Measuring range)** | **Delay time (s)** | **Alarm type** | **Function** |
| Alarm 1 (relay-1) |  |  |  | Choose an item. | Choose an item. |
| Alarm 2 (relay-2) |  |  |  | Choose an item. | Choose an item. |
| \*Alarm 3 (Digital) |  |  |  | Choose an item. | Choose an item. |

Please complete the above table according to your requirements the instructions below.

An **alarm** **delay** up to a maximum of 9.9 seconds guarantees that briefly exceeded alarm values do not activate the alarm.

**Available alarm types:**

MAX alarm with rising measured value

MIN alarm with falling measured value

**Available alarm functions:**

De-energized: in good status the relay is powered off

Energized: in good status the relay is powered on

No function: alarm output is switched off permanently

 **Hysteresis:** Difference in the points at which the relay operates when traversing an alarm level setpoint. i.e if a normally energised relay De-energises on a rising alarm at the setpoint, it can be set to Re-energise at a value below that setpoint when falling.(units in % of measuring range. Thus for the standard measuring range of 0-25%, a 1.0% Hysteresis value as shown be, would result in a % volume Oxygen Hysteresis value of 0.25% Vol. Oxygen Hysteresis value. ((25%x1.0%)/100.=0.25%). **Example below.**

Hysteresis in % of range (0-25%)

Relay 1 Min

Alarm @ 19.5%

Healthy@20.5%

In the case on both these relays, Energised is the Healthy condition (closed circuit) whereas the Alarm condition causes an Open circuit.

4%

Relay 2 Max

Alarm @ 5%

Healthy@4.75%

1%

% Oxygen

0% 5% 10% 15% 20% 25% 25%

\*Alarm 3 is a Transistor output. This is not to be confused with Relay 3 (RL3) which is the main safety Trip Relay for the SIL O2 Module and which cannot be configured.

**Customer:**

**Date:**

**Rev.3**